



Karan Raj Sharma

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Education

Indian Institute of Technology, Guwahati

B. Tech. - Computer Science and Engineering

July 2019 - Current

Current CPI - 8.51

Experience

• Summer Internship at DevRev

May 2022 - July 2022

DevRev

- Developed and deployed an end-to-end **video call feature** in app, using **React TypeScript** and **Tailwind CSS** for frontend, **Cypress** for its testing and **Golang** for the backend.
- Used **100ms SDK** and employed various **UI/UX** features like draggability, minimizability, dominant speaker highlighting for the videocall feature.

• Member of Technical Staff (Part-time alongside College degree)

August 2022 - Present

DevRev

- Worked on various UI tasks on the DevRev Support Widget and the DevRev app using **React** and **TypeScript**, including various features like Rich Text Editor, Token Creation Page, App Credentials page, e2e tests for the support widget from scratch, refactored and extended generalizability of various components.

Projects

• Page Migration

Ongoing

Dr. T. Venkatesh, Dept. of CSE, IIT Guwahati

- Proposed and implemented an algorithm for page migration from remote to local memory in disaggregated systems based on the hotness (popularity) of pages in local and remote memories, and making intelligent decisions based on the migration revenue.
- Implemented the algorithm in a **C++** simulator for a disaggregated system.

• Personal Website

October 2022

Personal Project

<https://karan-sharma.netlify.app/>

- Developed a responsive **React.js** and **Tailwind CSS** based resume website in my free time over the weekend, to try and make a **smooth UX** with animations and transitions for all screen sizes.

• Interview Preparation Tracker

April 2021

Coding Club, IIT Guwahati

<https://git.io/JlJVp>

- Developed a **Node.js**-based web application project to help users prepare for interviews by practising and adding topics and questions, and read and write interview experiences.
- The user database was stored in the MongoDB database and multiple dependencies including Express.js and Mongoose were used.

• A* Pathfinding Visualizer

July 2021

Personal Project

<https://git.io/JlJwz>

- Developed a **python visualization** of the A* pathfinding algorithm using Pygame and TKinter, which allows users to pick a start and end location and view the process of finding the shortest path.

Technical Skills

- Programming Languages:** C/C++, Go, JavaScript, TypeScript, Python*, Java*
- Web Technologies:** HTML, CSS, React, Node.js, Tailwind CSS, Cypress
- Database Management:** MySQL, MongoDB
- Operating Systems:** Linux, Windows, Mac OS

* Elementary Proficiency

Key Courses Undertaken

- Computer Science:** Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management, Machine Learning, Deep Learning
- Mathematics:** Probability Theory and Random Processes, Linear Algebra, Advanced Mathematics for Engineers

Achievements

- DevRev PPO:** Got pre-placement offer from DevRev on the basis of work done during internship.
- JEE (Adv) 2019:** Secured an All India Rank of **510** among **0.16 million** contesting candidates.
- JEE (Main) 2019:** Secured **99.77 percentile** among **1 million** contesting candidates.
- CodeChef:** Rating **2132**, **5* Coder** on CodeChef
- Codeforces:** Rating **1702 (Expert)** on Codeforces
- Google Kickstart 2022:** Secured a global rank of **1466** among nearly **14k** contesting candidates in Round G.
- Google Code Jam 2022:** Secured a global rank of **1855** among nearly **15k** contesting candidates in Round 1.
- CodeChef Lunchtime:** Secured a global rank of **70** among nearly **5k** contesting candidates.
- Codeforces Div 2:** Secured a global rank of **475** among **30k** contesting candidates.

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